

Figure 1

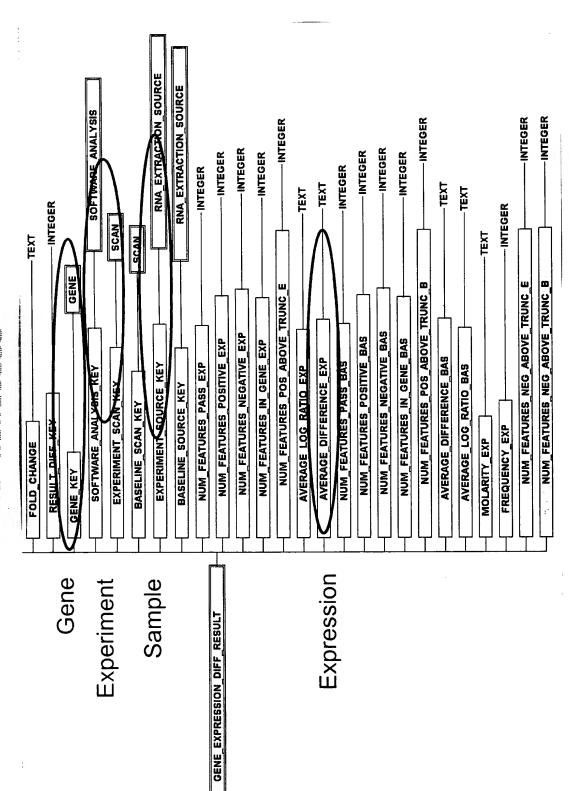


Figure 2

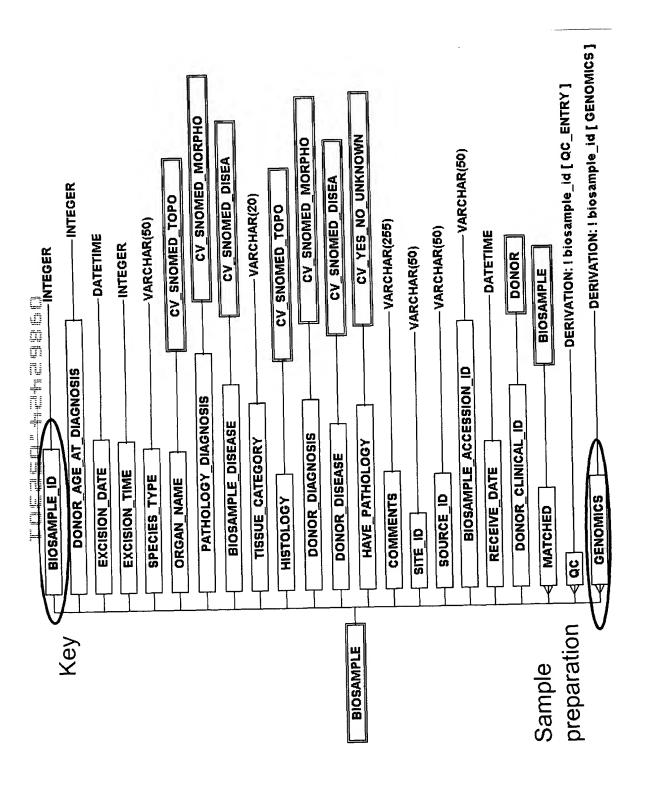


Figure 3

| STUDY SERIES | | |
|-------------------------------|-----------------------|-------------|
| STUDY_VARIANT | VARCHAR(10) | |
| STUDY SERIES QUESTION | VARCHAR(128) | |
| STUDY SERIES DESCRIPTION | VARCHAR(50) | |
| STUDY VARIANT DESCRIPTION | VARCHAR(50) | |
| ORGANISM GENUS | | |
| ORGANISM SPECIES | | |
| ORGANISM SUBSPECIES | VARCHAR(32) | |
| ORGANISM COMMON NAME | VARCHAR(32) | |
| ORGANISM STRAIN | VARCHAR(32) | |
| ORGANISM SEX | | |
| ORGANISM_MUTATION_DESIGNATION | VARCHAR(12) | |
| ORGANISM SUPPLIER | VARCHAR(32) | |
| ORGANISM CATALOG ID | | |
| ORGANISM_AGE_AFTER_BIRTH | DATETIME | |
| ORGANISM AGE POST CONCEPTION | DATETIME | |
| ORGANISM DISEASE DESCRIPTION | VARCHAR(32) | |
| TISSUE_NAME | —VARCHAR(32) | |
| TISSUE_SUPPLIER | VARCHAR(32) | |
| TISSUE NUMBER OF ANIMALS | INTEGER | |
| | VARIABLE_KEY | INTEGER |
| | VARIABLE NAME | WARCHAR(32) |
| | VARIABLE_VALUE_STRING | VARCHAR(50 |
| | VARIABLE_VALUE_NUMBER | INTEGER |
| | VARIABLE_TYPE | |
| PRIMARY VARIABLES | VARIABLE UNITS | |
| | CREATED BY | |
| | MODIFIED_BY | VARCHAR(32) |
| | DATE CREATED | DATETIME |
| | DATE_MODIFIED | DATETIME |
| | | |

Figure 4

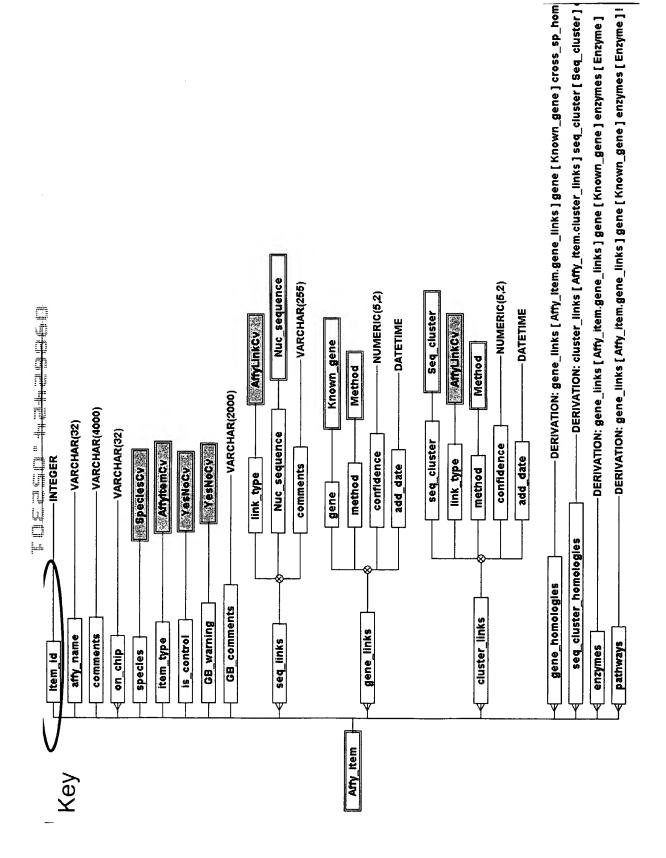


Figure 5

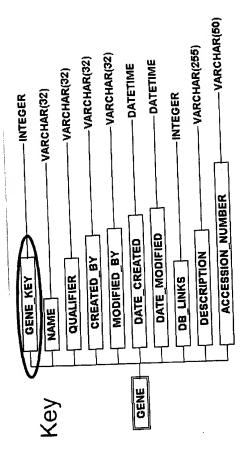


Figure 6

Figure 7